

Abstract

The electrodes have jet openings which jet the electrolyte to the steel strip, that is to say, the electrode is integrated with the nozzle which jets an electrolyte.

By jetting the electrolyte to the steel strip in the air and applying a voltage to the electrode, the scale on the surface of the steel strip is removed. By jetting the electrolyte in the air, there is reduction in the size of an electrolyte tank storing the electrolyte, because the required quantity of an electrolyte decreases. Therefore, the descaling apparatus is miniaturized. Short-circuit electric current through electrolyte between electrodes decreases, and thereby the electric power efficiency improves. By individually adjusting the jet pressure of the electrolyte jets, the waving and the flexure of the steel strip is prevented, and we can arrange the electrodes close to the steel strip to reduce electric power. Providing many electrodes is accomplished because of the reduction in short circuit current and the improves the speed of the descaling because the electric current to the steel strip increases.